

# **NOTIFICATION OF ADDENDUM**

## **ADDENDUM NO. 1**

**DATED 9/03/2009**

<b>Control</b>	<b>0369-03-028</b>
<b>Project</b>	<b>STP 2010(088)ES</b>
<b>Highway</b>	<b>RM 187</b>
<b>County</b>	<b>UVALDE</b>

Ladies/Gentlemen:

Attached please find an addendum on the above captioned project. Included in the attachment is an addendum notification which details the changes and the respective proposal pages which were added and/or changed.

Except for new bid insert pages, it is unnecessary to return any of the pages attached.

Bid insert pages must be returned with the bid proposal submitted to the Department, unless your firm is submitting a bid using a computer print out. The computer print out must be changed to reflect the new bid item information.

Contractors and material suppliers, etc. who have previously been furnished informational proposals are not being furnished a copy of the addendum. If you have a subcontractor on the above project, please advise them of this addendum. Acknowledgment of this addendum is not requested if your company has been issued a proposal stamped "This Proposal Issued for Informational Purposes."

You are required to acknowledge receipt of this addendum on the Addendum Acknowledgement form contained in your bid proposal by placing a mark in the box next to the respective addendum.

Failure to Acknowledge receipt of this addendum in your bid proposal will result in your bid not being read.

SUBJECT: PLANS AND PROPOSAL ADDENDUMS

PROJECT: STP 2010(088)ES

CONTROL: 0369-03-028

COUNTY: UVALDE

LETTING: 09/10/2009

REFERENCE NO: 0831

**PROPOSAL ADDENDUMS**

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\_ PROPOSAL COVER

X BID INSERTS (SH. NO.: 3-6)

X GENERAL NOTES (SH. NO.: 4, 4A THRU 4D)

\_ SPEC LIST (SH. NO.:

\_ SPECIAL PROVISIONS:

ADDED:

DELETED:

\_ SPECIAL SPECIFICATIONS:

ADDED:

DELETED:

\_ OTHER:

DESCRIPTION OF ABOVE CHANGES

(INCLUDING PLANS SHEET CHANGES)

SHEET 4 DELETED NOTE TO CALL THE TEXAS ONE CALL SYSTEM

SHEET 4A REVISED DUE TO THE CHANGE MADE ABOVE

SHEET 4B MODIFIED SECOND PARAGRAPH UNDER ITEM 100

SHEET 4C AND 4D REVISED DUE TO THE CHANGE MADE ABOVE

SHEET 5 INCREASED ITEM 502-2001 FROM 8 MO TO 9 MO

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	100	2002	002	PREPARING ROW DOLLARS and CENTS	STA	273.740	1
	110	2001		EXCAVATION (ROADWAY) DOLLARS and CENTS	CY	14,727.000	2
	132	2003		EMBANKMENT (FINAL)(ORD COMP)(TY B) DOLLARS and CENTS	CY	5,849.000	3
	150	2002		BLADING DOLLARS and CENTS	HR	84.000	4
	164	2035	002	DRILL SEEDING (PERM) (RURAL) (CLAY) DOLLARS and CENTS	SY	147,732.000	5
	164	2041	002	DRILL SEEDING (TEMP) (WARM) DOLLARS and CENTS	SY	147,732.000	6
	164	2043	002	DRILL SEEDING (TEMP) (COOL) DOLLARS and CENTS	SY	147,732.000	7
	168	2001		VEGETATIVE WATERING DOLLARS and CENTS	MG	2,364.000	8
	169	2003	002	SOIL RETENTION BLANKETS (CL 1) (TY C) DOLLARS and CENTS	SY	1,945.000	9
	216	2001		PROOF ROLLING DOLLARS and CENTS	HR	12.000	10
	247	2371	033	FL BS(CMP IN PLC)(TYA GR 2 OR 4)FNL POS DOLLARS and CENTS	CY	15,693.000	11

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	251	2005		REWORK BS MTL (TY B) (6") (ORD COMP) DOLLARS and CENTS	STA	62.520	12
	251	2013		REWORK BS MTL (TY D) (6") (ORD COMP) DOLLARS and CENTS	STA	229.880	13
	275	2001		CEMENT DOLLARS and CENTS	TON	915.900	14
	275	2002		CEMENT TREAT (EXIST MATL) (6") DOLLARS and CENTS	SY	101,788.000	15
	316	2015		ASPH (RC-250) DOLLARS and CENTS	GAL	18,013.000	16
	316	2245		AGGR(TY-PE GR-3 SAC-B) DOLLARS and CENTS	CY	1,001.000	17
	316	2250		AGGR(TY-PE GR-5 SAC-B) DOLLARS and CENTS	CY	819.000	18
	316	2403		ASPH (AC-15P, HFRS-2P, OR CRS-2P) DOLLARS and CENTS	GAL	54,038.000	19
	316	2570		AGGR (TY-PE GR4 OR TY-PE GR4S) SAC-B DOLLARS and CENTS	CY	901.000	20
	330	2004		LRA PAV TY-I GR-C DOLLARS and CENTS	TON	46.000	21
	354	2021		PLANE ASPH CONC PAV(0" TO 2") DOLLARS and CENTS	SY	461.000	22

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	432	2001		RIPRAP (CONC)(4 IN)  DOLLARS CENTS and	CY	89.000	23
	460	2015		CMP AR (GAL STL DES 3)  DOLLARS CENTS and	LF	352.000	24
	500	2001	005	MOBILIZATION  DOLLARS CENTS and	LS	1.000	25
	502	2001	033	BARRICADES, SIGNS AND TRAFFIC HAN- DLING  DOLLARS CENTS and	MO	9.000	26
	506	2002	011	ROCK FILTER DAMS (INSTALL) (TY 2)  DOLLARS CENTS and	LF	1,200.000	27
	506	2009	011	ROCK FILTER DAMS (REMOVE)  DOLLARS CENTS and	LF	1,200.000	28
	506	2016	011	CONSTRUCTION EXITS (INSTALL) (TY 1)  DOLLARS CENTS and	SY	400.000	29
	506	2019	011	CONSTRUCTION EXITS (REMOVE)  DOLLARS CENTS and	SY	400.000	30
	506	2026	011	FRNT END LOADER WORK (ERSN & SEDM CONT)  DOLLARS CENTS and	HR	57.000	31
	510	2001		ONE-WAY TRAFFIC CONTROL  DOLLARS CENTS and	HR	800.000	32

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	530	2012		DRIVEWAYS (SURF TREAT) DOLLARS and CENTS	SY	1,292.000	33
	540	2001		MTL W-BEAM GD FEN (TIM POST) DOLLARS and CENTS	LF	400.000	34
	540	2005		TERMINAL ANCHOR SECTION DOLLARS and CENTS	EA	2.000	35
	544	2001		GUARDRAIL END TREATMENT (INSTALL) DOLLARS and CENTS	EA	2.000	36
	644	2001		INS SM RD SN SUP&AM TY 10BWG(1) SA(P) DOLLARS and CENTS	EA	8.000	37
	644	2056		RELOCATE SM RD SN SUP & AM TY 10BWG DOLLARS and CENTS	EA	11.000	38
	644	2060		REMOVE SM RD SN SUP & AM DOLLARS and CENTS	EA	6.000	39
	658	2240		INSTL DEL ASSM (D-SW)SZ 1(F LX)GF2 DOLLARS and CENTS	EA	6.000	40
	658	2319		INSTL OM ASSM (OM-2Z)(RCR)WP DOLLARS and CENTS	EA	28.000	41
	658	2329		INSTL DEL ASSM (D-SW)SZ 1(F LX)GND DOLLARS and CENTS	EA	78.000	42
	658	2362		INSTL OM ASSM (OM-2Z)(RCR) GF2 DOLLARS and CENTS	EA	2.000	43

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	662	2030		WK ZN PAV MRK NON-REMOV (Y) 4" (BRK) DOLLARS and CENTS	LF	6,630.000	44
	662	2032		WK ZN PAV MRK NON-REMOV (Y) 4" (SLD) DOLLARS and CENTS	LF	8,783.000	45
	662	2115		WK ZN PAV MRK SHT TERM (TAB) TY Y-2 DOLLARS and CENTS	EA	4,858.000	46
	672	2015	034	REFL PAV MRKR TY II-A-A DOLLARS and CENTS	EA	452.000	47
	677	2001		ELIM EXT PAV MRK & MRKS ( 4") DOLLARS and CENTS	LF	1,000.000	48
	730	2002		FULL-WIDTH MOWING DOLLARS and CENTS	AC	106.050	49
	5049	2003		BIODGRD EROSION CONTROL LOGS (12" DIA) DOLLARS and CENTS	LF	880.000	50
	8251	2006		RE PM W/RET REQ TY I(W)4"(SLD)(100MIL) DOLLARS and CENTS	LF	59,176.000	51
	8251	2015		RE PM W/RET REQ TY I(Y)4"(BRK)(100MIL) DOLLARS and CENTS	LF	6,630.000	52
	8251	2018		RE PM W/RET REQ TY I(Y)4"(SLD)(100MIL) DOLLARS and CENTS	LF	8,783.000	53

PROJECT STP 2010(088)ES  
COUNTY UVALDE

PROPOSAL SHEET  
TxDOT  
FORM 234-B I-61-5M

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	8251	2033		PAVEMENT SEALER 4"  DOLLARS and CENTS	LF	74,589.000	54



County: Uvalde

Control: 0369-03-028

Highway: RM 187

## \*\*\*\*\*GENERAL NOTES\*\*\*\*\*

Grading Requirements For:

Item 247 Flex Base (TY A GR 4)

Grading Requirements For: Item 247 Flex Base (TY A GR 4)							Soil Constants			Wet Ball
2 1/2"	1 3/4"	7/8"	3/4"	3/8"	#4	#40	LL Max	PI Max	PI Min	Mill Max
-----										
Percent retained on each sieve										
-	0	-	10-50	-	45-75	60-85	40	12	6	*45

\* The maximum increase in material passing the no. 40 sieve shall not exceed 20.

Min. Compressive  
Strength, psi

Lateral Pressure 0 psi 35

Lateral Pressure 15 psi 175

## ===== Compaction Requirements =====

Item	Material	Course	Density
247	Flex Base	All	100 % Minimum

## ===== Basis of Estimate =====

Item	Description	Rate/Area	Quant-Unit
150	BLADING	* AS REQUIRED	84 HR
216	ROLLING (PROOF)	2 HR/MI.	12 HR
247	FL BS (CIP)(TY A GR 4)	See Typical Sections	15,693 CY
510	ONE-WAY TRAF CONTL	AS REQUIRED	800 HR
275	CEMENT	18 LBS/SY @ 101,788 SY	915.9 TON

\*The Item "BLADING" has been set up to tie existing ditches to the proposed roadway and ditches around rock gabions after construction, and also for work around structures.

## ===== Asphalt Concrete Pavement =====

Type	Location	Depth	Rate/Area	Quant-Tons
LRA	Full Rdwy Width	2"	461 SY	46 TONS

## ===== Surface Treatment Data =====

**County:** Uvalde**Control:** 0369-03-028**Highway:** RM 187

Description	1st Course
Area	90,062 SY
asph--type	RC-250
asph--rate(gal/sy)	0.20/1 = 18,013 Gals
aggr--type/gr	Ty PE/Gr 5 SAC-B
aggr--rate(cy/sy)	1/ 110 = 819 CY

Description	2nd Course	3rd Course
Area	90,062 SY	90,062 SY
asph--type	AC 15-P, HFRS-2P OR CRS-2P	
asph--rate(gal/sy)	0.32/1 = 28,820 Gal	0.28/1 = 25,218 Gal
aggr--type/gr	Ty PE/Gr 3 SAC-B	Ty PE/Gr 4 SAC-B
aggr--rate(cy/sy)	1/ 90 = 1001 CY	1/100 = 901 CY

Note: Asphalt rates & quantities shown for 2<sup>nd</sup> and 3<sup>rd</sup> courses were calculated based on use of AC Asphalt.

To better fit field conditions, the cross sections may be varied when approved.

If there are waste areas or material source areas, follow the Texas Aggregate Quarry and Pit Safety Act requirements.

Any materials removed and not reused and determined to be salvageable shall be stored within the project limits at an approved location or delivered undamaged to the storage yard as directed. Properly dispose unsalvageable materials in accordance with local, state, and federal regulations. Deface traffic signs so that they will not reappear in public as signs.

Any sign panels that are adjusted or removed and replaced, shall be done the same workday unless otherwise approved.

#### Hurricane Evacuation

Hurricane Season is from June 1 thru November 30. As the closest metropolitan city inland from the Texas Coast, the City of San Antonio is a major shelter destination during mandatory hurricane evacuations. As such, planned work zone lane or road closures may be restricted and/or suspended during mandatory hurricane evacuation operations. The District will coordinate these restrictions at a minimum H-120 from any projected impact to the Texas Coast.

No time charges will be made if the Engineer determines that work on the project was impacted by the hurricane.

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The Engineer may order changes in the Traffic Control Plan to accommodate evacuation traffic, and may suspend the work, all or in part, to ensure timely completion of this work. All work to implement changes in the Traffic Control Plan will be paid through existing bid prices or through Item 9.5, Force Account. However, the Department will not entertain any request for delay damages, loss of efficiency that may be attributed to the restriction or suspension of road or lane closures, or to changes in the Traffic Control Plan.

**--Item 5--**

Reference all existing striping and other pavement markings to allow these markings to be re-established. Ensure the markings (lane lines, edge lines, ramp gores, etc.) are in line with signs, TMS arrows, etc. located on overhead sign supports.

Prior to letting, bidders may obtain a free computer diskette or a computerized transfer of files (from the Engineer's office) that contains the earthwork information. If copies of the cross-sections in addition to, or instead of, the CD are requested, they will be available at the Engineer's office for borrowing by copying companies at the bidder's expense.

When working near aerial electrical lines or utility poles, comply with Federal, State and local regulations. For electrical lines and poles shown in the plans, if the lines need to be de-energized or if poles need to be braced, contact the electrical company. Work pertaining to de-energizing lines, bracing poles and other protective measures will not be paid by TxDOT.

**Prevention of Migratory Bird Nesting**

It is anticipated that migratory birds, a protected group of species, may try to nest on bridges, culverts, vegetation, or gravel substrate, at any time of the year. The preferred nesting season for migratory birds is from February 15 through October 1. When practicable, schedule construction operations outside of the preferred nesting season. Otherwise, nests containing migratory birds must be avoided and no work will be performed in the nesting areas until the young birds have fledged.

**Structures**

Bridge and culvert construction operations can not begin until swallow nesting prevention is implemented, until after October 1 if it's determined that swallow nesting is actively occurring, or until it's determined swallow nests have been abandoned. If the State installed nesting deterrent on the bridges and culverts, maintain the existing nesting deterrent to prevent swallow nesting until October 1 or completion of the bridge and culvert work, whichever occurs earlier. If new nests are built and occupied after the beginning of the work, do not perform work that can interfere with or discourage swallows from returning to their nests. Prevention of swallow nesting can be performed by one of the following methods:

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1. By February 15 begin the removal of any existing mud nests and all other mud placed by swallows for the construction of nests on any portion of the bridge and culverts. The Engineer will inspect the bridges and culverts for nest building activity. If swallows begin nest building, scrape or wash down all nest sites. Perform these activities daily unless the Engineer determines the need to do this work more frequently. Remove nests and mud through October 1 or until bridge and culvert construction operations are completed.

2. By February 15 place a nesting deterrent (which prevents access to the bridge and culvert by swallows) on the entire bridge (except deck and railing) and culverts.

No extension of time or compensation payment will be granted for a delay or suspension of work caused by nesting swallows. This work is subsidiary to the various bid items.

**--Item 6--**

Show the stockpile lot and/or sub lot numbers on all tickets for all materials.

**--Item 7--**

The project's total disturbed area is 54.82 Acres. The disturbed area in all project locations and Contractor project specific locations (PSL's), within 1 mile of the project limits, will further establish the authorization requirements for storm water discharges. The department will obtain an authorization to discharge storm water from the Texas Commission on Environmental Quality (TCEQ) for the construction activities shown on the plans. Obtain any required authorization from the TCEQ for any PSL's on or off the ROW. When the total area disturbed on the project and PSL's within 1 mile of the project exceeds 5 acres, provide a copy of the Contractor NOI for PSL's to the Engineer (to the appropriate MS4 operator when the project is on an off-state system route).

Notify the Engineer of the disturbed acreage within one (1) mile of the project limits. Obtain authorization from the TCEQ for Contractor PSL's for construction support activities on or off ROW.

**--Item 8--**

Working days will be computed and charged in accordance with Article 8.3.A. 4: Standard work week.

The number of working days and interim milestones, if any, were calculated using a conceptual time determination schedule that assumes generic resources, production rates, sequences of construction and average weather conditions based on historic data. If requested, the Engineer will supply bidders a CD of the time determination schedule compatible with Primavera Project Planner software. The time determination schedule is provided for informational use only and is not intended for bidding or construction purposes. If the schedule is used for bidding or construction purposes, the bidder accepts the schedule and assumes the responsibility for verifying all aspects of the schedule. The department will not adjust the number of working days

and milestones, if any, due to differences in opinion regarding any assumptions made in the preparation of the schedule or for errors, omissions or discrepancies found in the schedule.

**--Item 100--**

Begin clearing operations after trees and other areas of vegetation to be protected have been identified and approved. Install fencing around features to be protected as shown in the plans or directed. Coordinate all right of way clearing operations with the SW3P.

Trim and remove brush and trees in order to construct the project or to provide a horizontal clearance of approximately 2 feet inside the right of way line and a vertical clearance of at least 12 feet. Obtain approval for proposed method of tree and brush trimming and removal. Vertical flailing equipment is not allowed. Treat damaged or cut branches, roots and/or stumps of all oak trees with a commercial tree wound dressing. Disinfect all pruning tools with a solution of 70% alcohol before moving from one tree to another. Unless otherwise approved remove all resulting vegetative debris from the ROW within 24 hours. The Engineer can stop all construction operations if the dressing, cut and removal requirements are not followed.

**--Item 110--**

Where excavation extends beyond a right of way fence, remove and replace the fence to a comparable condition this work is subsidiary to the various bid items.

**--Item 164--**

Drill seeding of permanent grasses requires the use of approved grass seeding equipment capable of properly storing and metering the release of small seeds (such as Bermuda grass) separately from fluffy type seeds (such as bluestems). Equipment manufactured for planting grain crops is acceptable for planting temporary cool season seeds, but not for planting the permanent seed mix.

When drill seeding is required, cultivate the area to a depth of 4 in. after the fertilizer has been applied and before placing the seed.

If performing a permanent seeding in an area with established temporary grass cover and mowing is performed instead of tilling, seed and fertilizer may be distributed simultaneously during "Broadcast Seeding" operations, provided each component is applied at the specified rate.

**--Item 168--**

Apply vegetative watering as needed to supplement natural rainfall during the vegetation establishment period. Drought or other environmental conditions, as determined by the Engineer, may require the application of supplemental irrigation to be between the hours of 6PM and 8AM.

**--Item 169--**

Do not use soil retention blankets made from carpet backing material.

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**--Item 247--**

For this project, the Ride test will be taken at least 10 days after placement of the prime coat.

The IRI requirement for this project is 110 in. per mile.

**---Item 302--**

Previously tested aggregates found to contain excessive quantities of dust (more than 0.5 percent passing the No. 40 sieve) during pre-coating, stockpiling or hauling operations, may be rejected. Use Test Method Tex-200-F, Part I for testing.

Pre-coated Aggregate Type PE shall consist of crushed slag, crushed stone or natural limestone rock asphalt.

The Engineer will utilize the Ignition Oven Method (Tex 236-F) for aggregate gradation, with the option of utilizing belt or vacuum extraction gradation in the event the ignition oven malfunctions.

**--Item 316--**

When using latex asphalt, avoid drifting of asphalt onto traffic and adjacent properties.

Asphalt season will be year around, but meet sections 316.4.D.1 through 3.

If the aggregates to be precoated are found to have stripping characteristics, addition of lime slurry may be required. If required, add lime (meeting Item 263) to the aggregate at the rate of 1% lime by weight of aggregate in slurry form at the cold feed. If approved, the lime slurry may be added at the stockpile, but not more than 24 hours in advance of use. The work is subsidiary to this Item.

Ensure that the asphalt for pre-coating the aggregate and the asphalt used for the surface treatment will not result in a reaction that may adversely affect the bonding of the aggregate and asphalt during the surface treatment operation.

Do not add bag house fines in the production of precoated material.

Aggregates used for the final surface shall have a Flakiness Index not to exceed 15 and shall be subjected to 5 cycles of the Soundness Test in accordance with Test Method Tex-411-A. The percent loss shall not be greater than 30 when magnesium sulfate is used. This test will not apply to blends with crushed trap rock, crushed rhyolite, crushed limestone rock asphalt or lightweight aggregate.

**--Item 330--**

The asphalt plant shall have truck scales as defined in Item 520. Give three weight tickets bearing the date, the truck number, and the gross, net & tare weights to the truck driver, for the

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State inspector at the spreading and finishing operation. Trucks may be required to weigh on public scales or portable platform scales to verify the weight of the ticket.

Use trap rock or crushed slag as the special aggregate for LRA.

If LRA is stockpiled where it might get contaminated with foreign materials, the bottom of the stockpile can not be used. A set of standard truck scales will be used to determine the quantity of contaminated material that will be deducted. Unless approved, do not stockpile LRA more than 10 days prior to lay-down operations.

The fluxing material shall be either an emulsified combination of asphalt and softening agent added individually (the softening agent may also be an emulsion), or a material meeting the requirements of Item "Asphalt's, Oils and Emulsions". The material(s) selected shall be approved.

**--Item 354--**

Planed material shall be stockpiled at a location within the project limits as approved by the Engineer.

Take precaution to avoid damage to existing concrete deck and joints. Repair any damage as approved.

**--Item 421--**

Use an automated ticket that contains the same information as TxDOT's ticket. Submit the ticket for approval prior to use. The concrete producer will contact the District Laboratory or the Engineer's Office (outside the San Antonio area) to inform TxDOT of scheduled structural concrete batching. Structural concrete includes bridge drill shafts, columns, caps, abutments, deck or top slabs of direct traffic culverts.

Air-entrained concrete is not required.

**--Item 432--**

In areas where guard fence posts are to be placed in riprap, the riprap shall have an 18 inch +/- blocked out area (round or square).

Match the slope of the Riprap (Mow Strip) to the slope of the adjacent roadway.

**--Item 500--**

"Materials on Hand" payments will not be considered in determining percentages for mobilization payments.

**--Item 502--**

Place standard markings no later than 14 days after surface treatment operations are completed.

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When advanced warning flashing arrow panels and/or changeable message sign is specified, have one standby unit in good condition at the job site.

Treat the pavement drop-offs as shown in the TCP.

After written notification, the time frame to provide properly maintained signs and barricades before considered in non-compliance is 48 hours from receipt of the notification.

Moving an existing sign to a temporary location is subsidiary to this Item. Installations with permanent supports at permanent locations will be paid for under the applicable bid item (s).

Avoid placing stockpiles within the roadway's horizontal clear zone. If a stockpile is placed within the clear zone, address in accordance with the MUTCD.

Do not place barricades, signs, or any other traffic control devices where they interfere with sight distance at driveways or side streets.

In addition to providing a Contractor's Responsible Person and a phone number for emergency contact, have an employee(s) available to respond on the project for emergencies and for taking corrective measures within 2 hours or within a reasonable time frame as specified by the Engineer.

**--Item 510--**

The length of the one-way traffic control section is limited to approximately 2 miles.

**--Item 540--**

MBGF posts shall be round with domed tops, and not painted. If 10 or less timber posts are needed, they may be purchased locally and will be accepted by visual inspection.

Guard fence posts placed in proposed and/or existing areas of riprap, sidewalks or other concrete shall have an 18 inch +/- (square or round) block out in the concrete. After the posts are installed, the blocked out area shall be topped off with 4 inches of low strength grout/mortar consisting of about 1 sack of cement per cubic yard of mix.

**--Item 585--**

Use Surface Test Type A to evaluate ride quality of travel lanes only in the areas receiving the LRA.

**--Item 666 & 8251--**

If TY II material is used (vs. an acrylic or epoxy) as the sealer for the TY I markings, place the TY II a minimum of 14 calendar days (to provide adequate curing) before placing the TY I markings.



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**--Item 672--**

Place all adhesive material directly from the heated dispenser to the pavement. Do not use portable or non-heated containers. Use adhesive of sufficient thickness so that when the marker is pressed into the adhesive, 1/8" or more adhesive will remain under 100% of the marker. The adhesive should extend not less than 1/2" but not more than 1 1/2" beyond the perimeter of the marker.

**--Item 677--**

Obtain approval before using the mechanical method for the elimination of existing thermoplastic pavement markings.

**--Item 730--**

Mow full-width and hand trim the right of way, including newly seeded or sodded areas, when vegetation reaches a height of 16" or when directed. Removal of brush sprouts growing within guardrail, concrete barriers or at other locations where mowing or hand trimming is done within the limits of construction is required and subsidiary to this item. Mowing may be required more often in newly sodded or seeded areas than in other parts of the project because of the supplemental irrigation these areas receive and the resulting weed growth. Coordinate mowing to avoid rutting or compaction of the soil when mowing where supplemental irrigation is being used. Use mowing equipment that will not adversely affect soil retention blankets or mulches that have been applied. Work performed under this item does not replace the mowing required when placing permanent seeding in an area that has established temporary seeding as described in Article 164.3, Construction.

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